Oil and gas will continue to dominate the global energy mix for many decades. Accordingly, the technical skills and the operational knowledge required to produce oil and gas in economical and environmentally responsible ways will continue to be in demand for generations.

Our department is currently the top-ranked undergraduate petroleum engineering school in the nation, and we have a reputation for educating the most readily employable graduates in the industry. Our students study a wide variety of disciplines, from technology to geosciences to economics, and a required internship experience reinforces this education with practical experience and provides networking opportunities for future employment.

RANKINGS
(U.S. News & World Report)

1st
Undergraduate Program (2022)

2nd
Graduate Program (2023)

DEMOGRAPHICS
(Undergraduate and Graduate)

24.2% International Students
75.8% Domestic Students

FACULTY (2022)
39 Faculty, including:
- 21 Society of Petroleum Engineers Distinguished Members
- 6 Society of Petroleum Engineers Honorary Members
- 2 National Academy of Engineering Members

FINANCIAL ASSISTANCE

221 Undergraduate Scholarships Awarded in 2021-22
$930,050 Total Scholarship Amount

41 Graduate Fellowships Awarded in Fall 2021
$223,332 Total Fellowship Amount
DEGREES
- Bachelor of Science
- Master of Engineering (on campus and online)
- Master of Science
- Doctor of Philosophy

CERTIFICATES
Petroleum Ventures Certificate - awarded through the Graham Petroleum Ventures Program in collaboration with the Mays Business School
Data Analytics for Petroleum Industry Certificate - awarded through the department and coordinated by the Texas A&M Institute of Data Science

ENGINEERING HONORS
The Engineering Honors Program offers an academically enriched plan of study developed for exceptionally talented and motivated students.

FAST TRACK PROGRAM
If students are committed to earning a master’s degree from our department, the Fast Track Program speeds up the process. Students can begin graduate studies at the end of their junior year and complete both the bachelor’s and master’s degrees within five years.

STUDENT ORGANIZATIONS
- SPE | Society of Petroleum Engineers
- AADE | American Association of Drilling Engineers
- IADC | International Association of Drilling Contractors
- Pi Epsilon Tau | National Honor Society of Petroleum Engineers

RESEARCH EXPENDITURES
$4.42 million for the 2021 fiscal year

RESEARCH AREAS OF FOCUS
Advanced Drilling Technologies
Well Control, Optimized Drilling Performance, Horizontal Drilling, Dual Gradient Drilling, Applied Drilling, Offshore Drilling Risks

Advanced Well Completion Technologies
Downhole Diagnostic Measurements, Intelligent Completions, Wellbore Models, Oil and Gas Recovery, Fluid/Gas/Foam Behavior, Nanotechnology

Gas Hydrates
Data Investigation, Crystal Growth, Behavior Modeling and Prediction, Gas Hydrate Systems

GeoEnergy Technologies
Geothermal Systems, Carbon Capture and Sequestration, Hydrogen Separation and Storage, Water Management

Predictive Models for Unconventional Reservoirs
Geologic, Fracture Propagation, Reservoir Simulation, Risk Assessment

Reservoir Modeling and Resource Assessment
Simulator Development, Optimization, Upscaling, Numerical Analysis, Data Analytics

Unconventional Reservoir Development and Assessment
Pore-Scale Rock Physics, Diagnostic Technologies, Nanotechnologies

Well Stimulation
Enhanced Oil Recovery, Hydraulic Fracturing Methods, Materials, Models, Matrix Acidizing, Acid Fracturing, Injections, Thermal Applications, Refracturing, Sand Transport

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